CW#124/HW#124: // and Review

Geometry  
Due: Friday, May 13th

Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ TP:\_\_\_\_\_

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| 1. Definition of parallel lines: | 1. Definition of perpendicular lines: |
| 1. Find the slope of a line parallel to the line whose equation is y – 3x = -5. | 1. Find an equation of the line that passes through  (-1,5) and is parallel to y -5x = 1. |
| 1. Find the slope of a line perpendicular to the line whose equation is y – 3x = 2. | 1. Find an equation of a line passing through (5, -2) and is perpendicular to 4x + 3y = 12. |

Bronze

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| Directions: Find the slope of a line that is parallel and the slope of a line that is perpendicular to each line whose equation is given. | |
| 1. y = 4x + 2 | 1. y = 5 – 2x |
| 1. 2y = 3x – 8 | 1. 6y -5x = 0 |
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| 1. Describe your process/strategy for finding the slope of a line that is parallel and perpendicular to a given line. | |
| Directions: State whether the following equations are parallel, perpendicular, or neither. Explain how you know. | |
| 1. ../../../../../Desktop/Screen%20Shot%202016-05-08%20at%205.02.39%20PM | 1. ../../../../../Desktop/Screen%20Shot%202016-05-08%20at%205.02.32%20PM |
| 1. ../../../../../Desktop/Screen%20Shot%202016-05-08%20at%205.02.35%20PM | 1. ../../../../../Desktop/Screen%20Shot%202016-05-08%20at%205.02.45%20PM |
| 1. Describe your process/strategy for determining if two lines are parallel, perpendicular, or neither. | |

Silver

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| 1. How do you determine the y-intercept, *b,* of an equation, *y=mx+b,* if you know one coordinate, *(x,y)*, on the line and the slope, *m* ? | | |
| Directions: Find an equation of the line that passes through each given point and is parallel to the given line. | | |
| 17. ../../../../../Desktop/Screen%20Shot%202016-05-08%20at%205.06.24%20PM | 18. ../../../../../Desktop/Screen%20Shot%202016-05-08%20at%205.06.35%20PM | 19.  ../../../../../Desktop/Screen%20Shot%202016-05-08%20at%205.06.48%20PM |
| Directions: Find an equation of the line that passes through each given point and is perpendicular to the given line. | | |
| 20. ../../../../../Desktop/Screen%20Shot%202016-05-08%20at%205.08.36%20PM | 21. ../../../../../Desktop/Screen%20Shot%202016-05-08%20at%205.08.40%20PM | 22.  ../../../../../Desktop/Screen%20Shot%202016-05-08%20at%205.08.45%20PM |

Gold

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| 23. Is the quadrilateral with vertices (−6, 2), (−3, 6), (9, −3), (6, −7) a rectangle? Explain.  ../../../../Math%20Materials%20-%20KMR/Images/Coordinate_Grid_XYAxis.PNG |
| 24.  /Users/katleiahramos/Desktop/Screen Shot 2016-05-07 at 11.25.57 AM.png |